

TRACK Carpentry Blueprint

STANDARDS		COURSES			TEST BLUEPRINT	120 QUESTIONS	
OA	Math for the Trades	Construction Technology	Floor and Wall Framing	Ceiling and Roof Framing	Site Layout and Foundations	21%	25
OA1	Add, subtract, multiply, and divide single-, double-, and triple-digit numbers						
OA2	Use fractions to add, subtract, multiply, and divide parts of numbers						
OA3	Convert fractions to decimals and decimals to fractions, and use decimals to find percentages						
OA4	Use and understand how to read measuring tools						
OA5	Construct layouts using lines, circles, and angles						
OA6	Explain square roots, square numbers, and the Pythagorean Theorem						
OA7	Use area measure to find the area of rectangles, squares, and circles						
OA8	Use volume measure to calculate the volume of three-dimensional objects						
OB	Wood and Metal Framing		Floor and Wall Framing	Ceiling and Roof Framing		13%	15
OB1	Understand the applications of wood and metal framing (e.g., workability, varied sizes and shapes, ease of operation, fire resistance, and sound transmission)						
OB2	Identify wood and metal framing components and their sizes; gauges of metal; types and shapes of beams, columns, and pilasters; and various trims and fasteners used for interior partition work						
OB3	Read prints and specifications to determine the type of partition and its location, layout, and related requirements						
OB4	Identify, estimate and describe installation of floor, ceiling and wall covering (e.g., suspended ceiling, drywall, paneling)						
OC	Building Layout				Site Layout and Foundations	13%	15
OC1	Demonstrate an understanding of the building layout process, including safety procedures, tools, materials, survey instruments, point of beginning, and benchmark						
OC2	Identify and read relevant sections of the building plan						
OC3	Identify tools and materials required in the building layout process						
OD	Formwork				Site Layout and Foundations	17%	20
OD1	Explain the properties of concrete and the purposes and specifications of formwork						
OD2	Identify types and components of forms (e.g., footers, wall forms, bridge forms, slab)						
OD3	Identify basic measures and materials used in formwork (e.g., form material, concrete, reinforcement)						
OD4	Name important structural components that can be fabricated from formwork and concrete (e.g. piers, columns, pile caps)						

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OE	Hand and Power Tools	Construction Technology	Floor and Wall Framing	Ceiling and Roof Framing	Site Layout and Foundations	17%	20
OE1	Identify and demonstrate the safe and proper use of hand tools (e.g., fastening devices, leveling devices, edge cutting devices)						
OE2	Identify and demonstrate the safe and proper use of power tools (e.g., electric portable and stationary, powder-actuated, pneumatic)						
OF	Health and Safety	Construction Technology	Floor and Wall Framing	Ceiling and Roof Framing	Site Layout and Foundations	21%	25
OF1	Assume responsibility for safety of self and others						
OF2	Identify personal protective equipment of the trade (e.g., eye protection, harnesses, footwear)						
OF3	Identify safety standards and procedures based on "OSHA 1926 Standards"						
OF4	Manage personal health and wellness (e.g., substance abuse, air pollutants, chemicals, workplace toxins)						
						100%	120

IKORCC Written Test for First Year Test-Out
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